

Application No. 10/732,851
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) ~~A rewrite control~~ An apparatus
~~for an onboard program,~~ comprising:

an onboard controller which is provided in a vehicle, and
which executes processing in accordance with an onboard program;

5 and

wherein a first storage medium of including a data area in
which vehicle condition data collected by an information
collection controller of said onboard controller is stored;
~~provided with a data area for storing vehicle condition data;~~

10 wherein when a command is given to rewrite the onboard
program into a new onboard program is given, said rewrite control
apparatus writes and saves the vehicle condition data stored in
said data area into is written and saved in one of: (i) a storage
area which is in said first storage medium and which is different
15 from said data area, or into and (ii) a second storage medium
that is different from said first storage medium, and executes
wherein rewrite processing of rewriting is then executed to
rewrite the onboard program into the new onboard program; and

20 wherein when said rewrite processing is finished, said
~~rewrite control apparatus performs processing of writing the~~
saved vehicle condition data is written back into said data area
in the first storage medium.

Application No. 10/732,851
Response to Office Action

Customer No. 01933

2. (Currently Amended) The ~~rewrite control~~ apparatus for an ~~onboard program~~ according to Claim 1, wherein while said vehicle condition data is saved in the one of said storage area and said second storage medium, said data area in said first storage medium is used as a buffer area for the new onboard program.

3. (Currently Amended) The ~~rewrite control~~ apparatus for an ~~onboard program~~ according to Claim 1, wherein the second storage medium ~~different from said storage medium is~~ comprises at least any one of: a storage medium provided in said information
5 collection controller separately from said first storage medium, a storage medium which is inside said vehicle and provided outside said information collection controller, and a storage medium in a server which is outside said vehicle and which is communicably connected to said onboard controller by
10 ~~communication means~~.

4. (Currently Amended) The ~~rewrite control~~ apparatus for an ~~onboard program~~ according to Claim 3, wherein while said vehicle condition data is saved in the one of said storage area and said second storage medium, said data area in said first storage medium is used as a buffer area for the new onboard program.

Application No. 10/732,851
Response to Office Action

Customer No. 01933

5. (Currently Amended) A ~~rewrite control apparatus for an~~
~~onboard program,~~ system comprising:

severs a plurality of servers;

an onboard controller which is provided in a vehicle and
5 which executes processing in accordance with an onboard program;
and

a communication means system for communicably connecting
said servers and said onboard controller in the vehicle, said
vehicle being separate from the servers; [[,]]

10 wherein said ~~rewrite control apparatus has~~ system is
operable in both: i) a normal operation mode for transmitting and
receiving a vehicle condition information between said servers
and said onboard controller, and ii) a rewrite mode for rewriting
the onboard program of said onboard controller into a new onboard
15 program transmitted from at least one of said servers, ~~which are~~
and wherein said system is switchable between the two modes in a
communication state; and

wherein when an onboard program rewrite command is issued
from at least one of said servers, said ~~rewrite control apparatus~~
20 system switches from the normal operation mode to the rewrite
mode, and when a command to switch to the normal operation mode
is transmitted during the rewrite mode, said ~~rewrite control~~
~~apparatus~~ system switches from the rewrite mode to the normal
operation mode.

Application No. 10/732,851
Response to Office Action

Customer No. 01933

6. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 5, wherein said switching command to switch to the normal operation mode is based on issued in accordance with at least one of a signal from a timer means or and a logout signal.

7. (Currently Amended) A ~~rewrite control apparatus for an onboard program, system~~ comprising:

a server;

an onboard controller which is provided in a vehicle and which executes processing in accordance with an onboard program;
5 and

a communication means system for communicably connecting said server and said onboard controller in the vehicle, said vehicle being separate from the server; [[,]]

10 wherein when said server is to execute rewrite processing of an the onboard program of said onboard controller via said communication means system, said server determines whether it should or not to execute the rewrite processing of said onboard program or not by referring to analyzing a memory content of said
15 onboard controller.

Application No. 10/732,851
Response to Office Action

Customer No. 01933

8. (Currently Amended) The ~~rewrite control apparatus for an~~
~~onboard program system~~ according to Claim 7, wherein when said
server determines whether ~~it should~~ or not to execute the rewrite
processing of said onboard program ~~or not~~, said server compares
5 the memory content of said onboard controller and a memory
content of a master file.

9. (Currently Amended) The ~~rewrite control apparatus for an~~
~~onboard program system~~ according to Claim 7, wherein when said
server determines whether ~~it should~~ or not to execute the rewrite
processing of said onboard program ~~or not~~, said server checks the
5 vehicle condition data of said vehicle, and when a ~~content~~
~~thereof indicates a state in which start~~ contents of the vehicle
condition data indicate that starting of said vehicle is locked,
said server does not execute the rewrite processing.

10. (Currently Amended) The ~~rewrite control apparatus for~~
~~an onboard program system~~ according to Claim 7, wherein when said
server determines whether ~~it should~~ or not to execute the rewrite
processing of said onboard program ~~or not~~, said server compares
5 the memory content of said onboard controller and a memory
content of a master file, and checks ~~the~~ vehicle condition data
of said vehicle, and when contents ~~thereof~~ of the vehicle
condition data indicate ~~a state in which start~~ that starting of

Application No. 10/732,851
Response to Office Action

Customer No. 01933

10 said vehicle is locked, said server does not execute the rewrite processing.

5 11. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 7, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program ~~or not~~, said server checks the vehicle condition data of said vehicle, and when a ~~content thereof indicates contents of the vehicle condition data~~ indicate that said vehicle is located at a specified position, said server executes the rewrite processing.

5 12. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 7, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program ~~or not~~, said server compares the memory content of said onboard controller and a memory content of a master file, and checks ~~the~~ vehicle condition data of said vehicle, and when contents ~~thereof~~ of the vehicle condition data indicate that said vehicle is located at a specified position, said server executes the rewrite processing.

13. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 7, wherein the

Application No. 10/732,851
Response to Office Action

Customer No. 01933

memory content of said onboard controller ~~includes~~ comprises at least ~~any~~ one of said onboard program and vehicle condition data.

14. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 13, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program or not, said server compares the memory content of said onboard controller and a memory content of a master file.

15. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 13, wherein when said server determines whether ~~it should~~ or not to execute ~~the~~ rewrite processing of said onboard program ~~or not~~, said server
5 checks the vehicle condition data of said vehicle, and when ~~a content thereof indicates a state in which start~~ contents of the vehicle condition data indicate that starting of said vehicle is locked, said server does not execute the rewrite processing.

16. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 13, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program ~~or not~~, said server
5 compares the memory content of said onboard controller and a

Application No. 10/732,851
Response to Office Action

Customer No. 01933

memory content of a master file, and checks the vehicle condition data of said vehicle, and when contents ~~thereof~~ of the vehicle condition data indicate ~~a state in which start~~ that starting of said vehicle is locked, said server does not execute the rewrite processing.

17. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 13, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program ~~or not~~, said server checks the vehicle condition data of said vehicle, and when a ~~content thereof indicates~~ contents of the vehicle condition data indicate that said vehicle is located at a specified position, said server executes the rewrite processing.

18. (Currently Amended) The ~~rewrite control apparatus for an onboard program system~~ according to Claim 13, wherein when said server determines whether ~~it should~~ or not to execute the rewrite processing of said onboard program ~~or not~~, said server compares the memory content of said onboard controller and a memory content of a master file, and checks the vehicle condition data of said vehicle, and when contents ~~thereof~~ of the vehicle condition data indicate that said vehicle is located at a specified position, said server executes the rewrite processing.

Application No. 10/732,851
Response to Office Action

Customer No. 01933

19. (New) The apparatus according to claim 1, wherein the rewriting of the onboard program is controlled by a server that is separate from the vehicle and that is connected thereto by a communication system.